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1	US 20040264591 A1	20041230	14	Method and system for M-QAM detection in communication systems	375/261
2	US 20040190641 A1	20040930	33	Method and system for modulating and demodulating signals in ultra-wide band (UWB) communication systems	375/261
3	US 20040131125 A1	20040708	103	Enhanced wireless packet data communication system, method, and apparatus applicable to both wide area networks	375/261
4	US 20040091058 A1	20040513	15	QAM receiver and method for constellations having at least sixteen symbols	375/261
5	US 20040013189 A1	20040122	25	Soft slicer in a hybrid decision feedback equalizer	375/233
6	US 20030142759 A1	20030731	22	Transmission system for reduction of amateur radio interference	375/298
7	US 20030058967 A1	20030327	32	Phase detectors in carrier recovery for offset QAM and VSB	375/327
8	US 20030058955 A1	20030327	22	High-speed communications transceiver	375/265
9	US 6952458 B1	20051004	14	Demapping system and method	375/341
10	US 6904098 B1	20050607	22	Linear phase robust carrier recovery for QAM modems	375/261
11	US 6757334 B1	20040629	72	Bit rate agile third-generation wireless CDMA, GSM, TDMA and OFDM system	375/259
12	US 6665348 B1	20031216	76	System and method for interoperable multiple-standard modulation and code selectable Feher's GMSK, enhanced GSM, CSMA, TDMA, OFDM, and thirdgeneration CDMA, W-CDMA and B-CDMA	375/259

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5	375/229; 375/235; 375/261	Jayaraman, Srikant et al.
6	375/261; 375/350	Anderson, Carl William et al.
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8	375/261	Raghavan, Sreen
9	375/253; 375/261; 714/780; 714/796	Djokovich; Igor et al.
10	375/326; 375/327; 375/350	Isaksen; David Bruce et al.
11	375/219; 375/261; 375/296; 375/298	Feher; Kamilo
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15	US 6470055 B1	20021022	71	Spectrally efficient FQPSK, FGMSK, and FQAM for enhanced performance CDMA, TDMA, GSM, OFDN, and other systems	375/259
16	US 6449246 B1	20020910	35	Multicarrier personal access communication system	370/210
17	US 6430228 B1	20020806	11/1	Digital QAM modulator using post filtering carrier recombination	375/261
18	US 6313885 B1	20011106	29	DTV receiver with baseband equalization filters for QAM signal and for VSB signal which employ common elements	348/725
19	US 6259743 B1	20010710	26	Automatic constellation phase recovery in blind start-up of a dual mode CAP-QAM receiver	375/261
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22	US 6104442 A	20000815		Radio receiver for receiving both VSB and QAM digital HDTV signals	348/725

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18		Patel; Chandrakant B. et al.
19		Garth; Lee McCandless
20	375/277; 375/298; 375/308; 375/332	Zhang; Qin
21	329/304; 332/103; 370/207; 375/261; 375/264; 375/269; 375/298; 375/324; 375/340; 379/93.08	Betts; William L.
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25	US 5878088 A	19990302	110	Digital variable symbol timing recovery system for QAM	375/324
26	US 5859877 A	19990112	22	Simultaneous analog and digital communication using fractional rate encoding	375/298
27	US 5844944 A	19981201		Simultaneous analog and digital communication using partitioning of bits into words	375/298
28	US 5818653 A	19981006	30	Multiple-values digital signal magnetic recording and reproducing apparatus using a QAM and PSK modulator, pilot signal and a viterbi decoder	360/32
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33	US 5608755 A	19970304	36	Method and apparatus for implementing carrierless amplitude/phase encoding in a network	375/219
34	US 5588022 A	19961224	10	Method and apparatus for AM compatible digital broadcasting	375/216
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36	US 5537436 A	19960716	30	Simultaneous analog and digital communication applications	375/222
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30	370/335; 370/347; 370/441; 370/479; 375/261; 375/298; 375/358	Rakib; Selim Shlomo
31	370/509; 370/515; 370/522; 375/261; 375/298; 375/364	Wang; Jin-Der
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43	US 5287351 A	19940215	21	Method and apparatus for minimizing error propagation in correlative digital and communication system	370/206
44	US 5222144 A	19930622	14	Digital quadrature radio receiver with two- step processing	381/15
45	US 5005186 A	19910402	44	Digital demodulator apparatus	375/328
46	US 4961206 A	19901002	31	Data modem system	375/261
47	US 4924492 A	19900508	21	Method and apparatus for wideband transmission of digital signals between, for example, a telephone central office and customer premises	379/93.08

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41	329/304; 332/103; 370/286; 375/222; 375/261	Bremer; Gordon et al.
42	375/222	Partridge, III; B. Waring
43	370/506; 375/261	Wall, Jr.; William E.
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50	US 4808937 A	19890228	15	Phase-locked loop for a modem	327/159
51	US 4780884 A	19881025	10	Suppressed double-sideband communication system	375/261
52	US 4646326 A	19870224	9	QAM modulator circuit	375/261
53	US 4521878 A	19850604	16	Data transmitting-receiving system	370/203
54	US 4489418 A	19841218	13	Differential encoding technique	375/246
55	US 4024342 A	19770517	117	System for detecting digital data transmitted by modulating a carrier	375/235
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49		Easley; Matthew F. et al.
50	327/160; 375/222; 375/223; 375/261; 375/376; 375/377; 379/93.28	Correa; German E. et al.
51	370/206; 375/270; 375/301	Karabinis; Peter D.
52		Backof, Jr.; Charles A. et al.
53	370/206; 375/261; 455/60	Toyonaga; Noriyasu
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